

海南兰科植物新资料 ()

宋希强^{1,3}, 孟千万², 罗毅波³

(1 海南大学园艺园林学院, 海南 儋州 571737; 2 上海中医药大学中药学院, 上海 201203;

3 中国科学院植物研究所系统与进化植物学国家重点实验室, 北京 100093)

摘要: 报道了中国兰科 (Orchidaceae) 植物 3 个中国新记录种: 三色槌柱兰 (*Malleola insectifera*)、腐生齿唇兰 (*Odontochilus saprophyticus*) 和白花曲唇兰 (*Panisea albiflora*)。

关键词: 三色槌柱兰; 腐生齿唇兰; 白花曲唇兰; 新记录; 海南

中图分类号: Q 949

文献标识码: A

文章编号: 0253-2700 (2009) 01-032-03

New Records of Orchids from Hainan, China ()

SONG Xi-Qiang^{1,3}, MENG Qian-Wan², LUO Yi-Bo^{3**}

(1 College of Horticulture and Landscape Architecture, Hainan University, Danzhou 571737, China; 2 School of Pharmacy, Shanghai University of Traditional Chinese Medicine, Shanghai 201203, China; 3 State Key Laboratory of Systematic and Evolutionary Botany, Institute of Botany, Chinese Academy of Sciences, Beijing 100093, China)

Abstract: Three species, *Malleola insectifera*, *Odontochilus saprophyticus* and *Panisea albiflora*, are newly recorded in China.

Key words: *Malleola insectifera*; *Odontochilus saprophyticus*; *Panisea albiflora*; Orchidaceae; New record; Hainan

During our fieldwork on orchids plants in Hainan, China, from 2005 to 2008, three species were found as new records to China.

Malleola insectifera (J. J. Sm.) J. J. Sm. & Schltr. in Fedde Report. Beih. 1: 981. 1913. — *Saccobium insectiferum* J. J. Sm., Fl. Buitenz. 6: 641, fig. 477. 1905. Type: Java. Malang, Verhey s. n. (holotype, BO). 三色槌柱兰 (新拟)

Epiphytic. Stems erect or climbing, terete, glabrous, 10 - 12 cm long, 3 - 4 mm in diameter; internodes short, ca. 5 mm long. Leaves amplexicaul, distichous, oblong, 4.0 × 1.0 - 1.2 cm, blunt, unequally bilobed. Inflorescences pendulous, arising from leaf axil, 15 - 18-flowered; rachis deep green, 5.5 - 6 cm long. Individual flower lasting for 3 - 5 days. Floral bracts deeply green, shortly triangular, less than 0.5

mm long. Flowers wide-opening, brownish-yellow, 3 - 4 mm across; pedicel and ovary 5 mm long; sepals and petals similar, brownish-yellow with 2 crimson stripes on each; dorsal sepal hooded, broadly ovate or suborbicular, nearly 3 mm long, ca. 2 mm wide; lateral sepals slightly oblique, broadly ovate or suborbicular, ca. 3 mm long, ca. 3 mm wide; petals less than 2 mm wide. Labellum 3-lobed, pale yellow except for purple patches on front edges and base of lateral lobes; lateral lobes narrowly triangular, erect, slightly incurved, truncate at apex, ca. 1 mm high; middle lobe broadly triangular, 3 - 4 mm long, ca. 1.5 mm wide, base thickened, fleshy, apex caudate, curved outside, ca. 1.5 mm long; disc base with irregularly purple papillae. Spur pale yellow, straight, close and nearly parallel to pedicel and ovary, middle inflated, base nar-

Foundation item: The National Natural Science Foundation of China (Grant no. 30660153)

Author for correspondence

Received date: 2008-08-11, Accepted date: 2008-10-20

作者简介: 宋希强 (1972-) 男, 博士, 主要研究方向: 生物多样性及其保育。E-mail: song.strong@163.com

rowed, ca .4 mm long, 1.5 - 2 mm in diameter . Column pale yellow with a brown median band, stout, ca .2 mm long . Fl . Dec . -next Jan .

China . Hainan (海南): Ledong (乐东), Jianfeng Mountain (尖峰岭), 2005 - 05 - 14, X . Q . Song 061219 (PE) . Epiphytic on trees or rocks in mixed lowland forest; alt . 500 - 600 m .

Malleola insectifera (J . J . Sm .) J . J . Sm . & Schltr . is distributed through Thailand, Malaya, Java to Ambon (Seidenfaden & Wood, 1995) before its discovery in Hainan, China in 2005 . It is different from *M. dentifera* J . J . Sm ., the other species of *Malleola* occurring in Hainan Island, by having brownish-yellow sepals and petals with 2 crimson stripes on each, truncate apex of lateral lobes of labellum, and spur close and nearly parallel to pedicel and ovary . The latter species is characterized by its whitish-yellow sepals and petals with 2 red stripes on each, triangular toothed apex of lateral lobes of labellum, spur far from and nearly vertical to pedicel and ovary (Seidenfaden, 1988) .

Odontochilus saprophyticus (Aver .) Ormerod in Taiwania 48 (3): 141 . 2003; — *Pristiglottis saprophytica* Aver ., Updated Checkl . Orch . Viet .: 90, 91, fig . 9 . 2003 . Type: Vietnam . Lam Dong Prov ., Lac Duong Distr ., Averyanov et al . VH 3977a (holotype, HN; isotype, LE) . 腐生齿唇兰 (新拟)

Saprophytic . Rhizome tuberous, usually 3-tuberous, tubers worm-like, 2 - 4.5 cm long, 0.5 - 2.0 cm in diameter . Scape 15 - 18 cm long, with 6 - 7 sheath scales broadly acuminate and hairy outside, 1 - 1.5 cm long, 0.4 - 0.5 cm in diameter . Inflorescence 12 - 13-flowered; rachis 7.5 cm long; floral bracts elliptic-ovate, concave, hairy outside, acuminate at apex, 0.8 - 1.0 × 0.4 - 0.5 cm . Flowers white, resupinate, 1.0 - 1.2 cm across, with reflexed lateral sepals and labellum, petals and dorsal sepal adnate to hood . Pedicel and ovary hairy, 1.0 - 1.1 cm long . Sepals outside hairy, dorsal sepal ovate, concave, 0.45 - 0.5 cm × 0.3 cm, 1-veined, lateral sepals obliquely oblong, 0.8 - 0.9 × 0.25 - 0.3 cm, 1-veined; petals pubescent, narrowly oblong, 0.4 - 0.5 × 0.15 - 0.2 cm, 1-veined; labellum hairless, 2-lobed, jointed to

the base of the column, 1.1 - 1.2 × 0.45 - 0.5 cm, hypochile saccate, with 2 short ligulate glabrous 1 mm tall calli on both sides ., mesochile forming narrow claw 0.4 - 0.5 × 0.15 - 0.2 cm, with numerous fat warts and papillae on flanges, epichile broadly 2-lobed, lobes subquadrate to lunglike, 0.4 - 0.5 × 0.35 - 0.4 cm . Column short, ca . 1.5 mm tall, at front with two parallel semi-circular to cordate wings; anther dorsal, anther cap narrowly ovate, ca . 2 mm long, 1.5 mm wide, 2-locular; pollinia 2, with a narrow stipe hooked at apex, stipe ca . 1 mm long; rostellum long and narrow, slightly asymmetric twisted, stigma 1, large, elliptic . Fl . May-June .

China . Hainan (海南): Qiongzhong (琼中), Limushan (黎母山); 2008 - 05 - 30, X . Q . Song 08016 (PE), alt . 900 - 1 100 m . In a thick litter-fall layer with rich organic matter under mountain tropical forest .

This species was firstly issued as a new taxon of *Pristiglottis* Cretz . & J . J . Sm ., *Pristiglottis P.-saprophytica* Aver . (Averyanov and Averyanova , 2003) . Then Ormerod (2003) placed it in *Odontochilus* Blume by Ormerod (2003) and suggested it is probably closely related to *O. poilanei* (Gagnep .) Ormerod, another mycoparasitic (or " saprophytic ") species in this genus .

Panisea albiflora (Ridl .) Seidenf ., Contr . Orch . Fl . Camb ., Laos & Vietn .: 87, fig . 13 . 1975 . Type: Vietnam, Langbian, Boden Kloss s.n . (holotype, BM) . 白花曲唇兰 (新拟)

Pseudobulbs congested, ovoid or narrowly ovoid, ca . 1.5 cm long, 5 - 7 mm in diameter, with 2 leaves at apex on each pseudobulb . Leaf blade narrowly elliptic to lanceolate, 4 - 6 × 0.8 - 1.2 cm, apex acuminate . Scape glabrous, 2 - 2.2 cm long . Inflorescence a raceme, 2 - 4-flowered flowers laxly along the margin of rachis in two rows; rachis short, 8 - 10 mm long . Floral bracts scarious, broadly ovate, acute at apex, ca . 7 × 4 mm . Flowers white, less than 1 cm across; pedicel and ovary 8 - 10 mm long, ovary shortly fusiform, winged, ca . 3 mm long; sepals similar, keeled at the middle of abaxial surface, dorsal sepal elliptic to ovate, ca . 8 × 3.5 - 4 mm, 3-veined, acuminate at apex; lateral sepals slightly obliquely elliptic, ca . 8 ×

3.5 - 4 mm, 3-veined, acuminate at apex; petals slightly shorter and narrower than sepals, elliptic, ca. 7 × 3 mm; labellum subentire or 3-lobed nearly to base, ovate-oblong, ca. 6 × 3.5 mm, apex mucronulate, margins repand or more or less crisped, with 2 short, deep green lamellae at subapex of disc, lamellae ca. 1 mm long. Column ca. 3 mm long; column wings narrow in lower part, upper part wider, apex surrounding the column and slightly irregularly denticulate.

China . Hainan (海南): Changjiang (昌江), 2008-03-29, X.Q. Song 08003 (PE), alt. 1356 m. Epiphytic on the trunk of *Distylium rigidifolium* Chang in upland montane forest.

This species was recorded as endemic in Vietnam (Seidenfaden, 1992) before its discovery in Hainan Island.

Acknowledgements: We are grateful to Prof. Qin-Er Yang for his critical reading of the manuscript. We thank Mr. Jing-Qiang Wang and Mr. Chen Qing for their assistance in the fieldwork at Bawang Ling National Nature Reserve.

References:

- Averyanov LV, Averyanova AL, 2003. Updated checklist of the orchids of Vietnam [M]. Hanoi: Vietnam National University Publishing House, 90—92
- Ormerod P, 2003. Orchidaceous additions to the floras of China and Vietnam [J]. *Taiwania*, 48 (3): 141
- Seidenfaden G, 1988. Orchid Genera in Thailand XIV. Fifty-nine vandoid Genera [J]. *Opera Botanica*, 95: 333—338
- Seidenfaden G, 1992. The Orchids of Indochina [J]. *Opera Botanica*, 114: 105—107
- Seidenfaden G, Wood JJ, 1992. The Orchids of Peninsular Malaysia and Singapore [M]. Fredenborg: Olsen & Olsen, 703—704

* * * * *

新书介绍

由中国科学院昆明植物研究所木全章研究员编著的《具有生理活性和治疗作用的植物药》一书，由云南出版集团公司及云南科技出版社正式出版发行。

本书包括三个部分：第一部分：作用于神经系统的植物药；第二部分：抗艾滋病植物药；第三部分：有用植物的化学成分研究。本书在内容上把植物化学成分的分离提取、药理筛选、临床疗效的研究、有效成分的工艺研究及结构改造等穿插其中，向读者立体展现了植物资源研究与开发的全过程，具有较高的学术价值。

在第一部分中，对人类误食会引起幻视、幻听、妄想的62种植物的30多个成分进行分析，并对作用于神经系统的几种植物药的药理特性及临床研究进行了详细的分析。尤其是三种植物——青阳参、乳突果和苦绳对癫痫、美尼尔氏综合症及儿童多动症有较好的疗效，为我国首次发现。在第二部分中对抗艾滋病植物药的研究状况进行分析，对作者筛选出的具有较强抗HIV活性的植物药进行了初步探讨。第三部分则对在工业和食品方面有重要用途的植物的化学成分进行了详细的论述，如牛肚子果的桑色素，梅果、竹叶菜的食用成分，治疗哮喘药的毛喉鞘蕊花的有效成分及栽培等，对这些植物的开发利用有较大的指导作用。

作者木全章研究员是云南纳西族人，1957年大学毕业分配到中科院昆明植物研究所后，一直从事植物资源开发利用和植物化学成分研究工作，历任教授，硕士生导师。1986年获云南省劳动模范称号，1991年应邀赴美NCI参加研究工作，1993年获国务院政府津贴，1999年获“东方之子”称号。成功研制了抗癫痫药青阳参片，抗艾滋病药M-36Na，治疗哮喘药鞘蕊苏，冶金试剂桑色素等4项产品。获专利6项和省级及省级以上科技奖6项。2008年10月，书中汇编论文“抗艾滋病药物的研究与开发”获中国老科学技术工作协会颁发的“改革开放三十年——中国专家学者优秀论文奖”，本人获得了“中国专家学者杰出贡献奖”。

作者在研究中善于将传统药用植物化学成分的研究与其生理活性研究紧密相连，尤其在对萝藦科植物被人称为“神经甾体”的C-21甾体及其配糖体的研究中，将系列的新结构与生理活性的研究相结合，开拓了一条植物化学成分研究与资源开发利用的新路，为青阳参药物的产业化打下坚实基础。本书的内容是作者50年心血的结晶，凝聚着作者对祖国传统医学文化的热爱。

本书ISBN: 978-7-5416-2965-5，大16开本，定价：158.00元。

全书262码，另收载有野生药用植物彩图，致幻植物的彩图及作者的获奖证书等照片的彩色插图40码，具较好的参考价值。

有需要的读者请与中国科学院昆明植物研究所博达科技公司 郑树萍 联系。

电话：0871-5223023

地址：云南昆明盘龙区蓝黑路132号中国科学院昆明植物研究所

邮编：650204